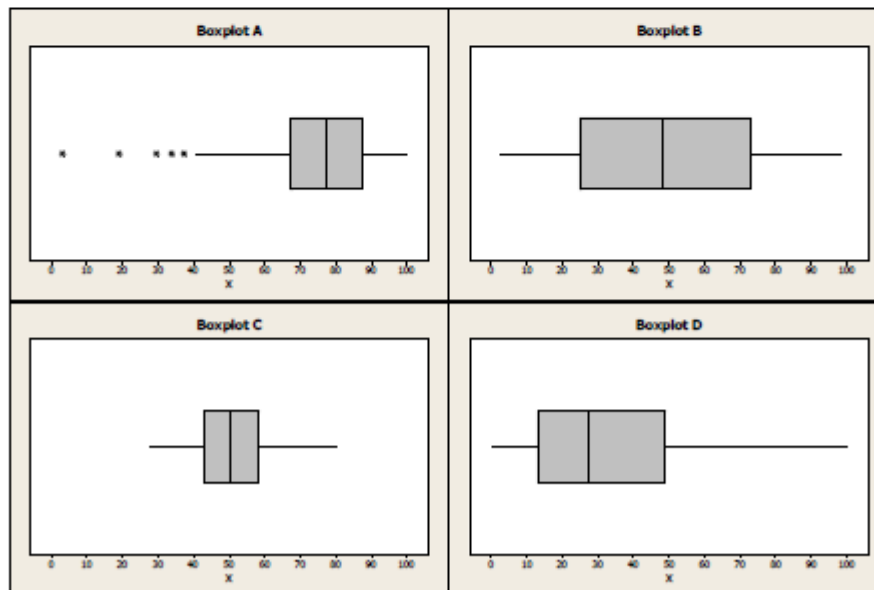
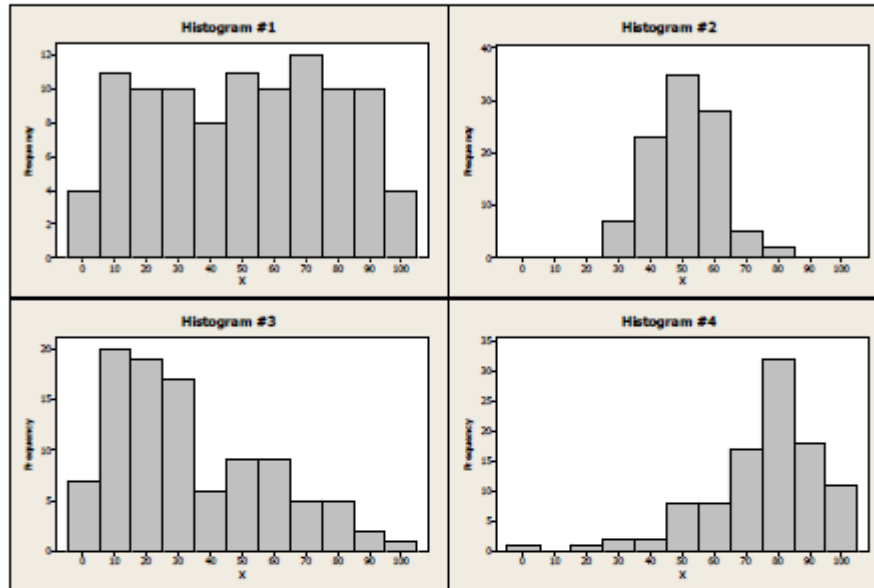


Introduction to Statistics and Data Analysis

Quartiles, IQR, and Boxplots

Part I. Match the histogram to the corresponding boxplot.



Part II. The table below contains the ages at which Oscar winning actresses won their awards ("Ages of Oscar-Winning Best Actors and Actresses", Richard Brown and Gretchen Davis, *Mathematics Teacher* magazine).

50	44	35	80	26	28	41	21	61	38	49	33	74
30	33	41	31	35	41	42	37	26	34	34	35	26
61	60	34	24	30	37	31	27	39	34	26	25	33

****Enter the data into a list in your calculator. ****

1. Obtain the five-number summary. (Choose Calc, then 1-Var Statistics)

2. Compute the IQR.

3. Compute the missing values below:

For the actresses, values below _____ OR above _____ are considered to be outliers.

- Draw a *modified* boxplot below.
- Determine whether the distribution is symmetric or skewed.
- Are there outliers?
- Determine an appropriate typical value and measure of variability.

